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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/601,656	06/20/2003	Bill E. Cham	13131-0310 (44378-282108)		
23370	7590 08/12/2004	EXAMINER		INER	
JOHN S. PRATT, ESQ			CHEN, STACY BROWN		
KILPATRICK STOCKTON, LLP			ART UNIT	PAPER NUMBER	
ATLANTA,			1648		
			DATE MAILED: 08/12/200	DATE MAILED: 08/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/601,656	CHAM ET AL.			
Office Action Summary	Examiner	Art Unit			
	Stacy B Chen	1648			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 20 Ju	<u>une 2003</u> .				
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdray. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-27 are subject to restriction and/or of the specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposition and accomposition and accomposition ac	wn from consideration. election requirement. er. epted or b) objected to by the l drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		7.6.6.7.6.7.6.7.7.7.7.6			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4)				
Paper No(s)/Mail Date	6) Other:	•			

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- Group I, claims 1 and 2, drawn to a modified immunodeficiency virus particle.
- Group II, claims 1 and 2, drawn to a modified hepatitis virus particle.
- Group III, claims 1 and 2, drawn to a modified pestivirus particle.
- Group IV, claims 3-5, 18, 19 and 22-27 drawn to a method of making a modified immunodeficiency virus particle.
- Group V, claims 3-5, 18, 19 and 22-27 drawn to a method of making a modified hepatitis virus particle.
- Group VI, claims 3-5, 18, 19 and 22-27 drawn to a method of making a modified pestivirus particle.
- Group VII, claims 6-8, drawn to an antigen delivery vehicle comprising patient specific antigens.
- Group VIII, claim 9, drawn to a method of providing protection against an infectious viral particle.
- Group IX, claim 10, drawn to a method of providing protection against a patient specific infectious viral particle.

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• Group X, claims 11-17 and 20-27, drawn to a method of provoking an immune response using patient specific antigens.

- 2. The inventions listed as Groups I-X do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the asserted special technical feature linking all claims is a modified viral particle that has been partially delipidated. Oxford (U.S. Patent 5,698,432) teaches the production of inactivated (delipidated) whole HIV virus using β -propiolactone (claim 6 of Oxford). Since the asserted special technical feature is anticipated by the prior art, the claims lack unity of invention.
 - a) Groups I-III are drawn to different viral particle compositions comprising immunodeficiency virus, hepatitis virus and pestivirus particles. A search for an immunodeficiency virus is not co-extensive for hepatitis and pestivirus. These viruses have different structures, genomic content, modes of operation, function and effect.
 - b) Inventions (I-III) and (IV-VI) are related as process of making and product made, respectively. The inventions are distinct if either or both of the following can be shown:

 (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the products can be made by a materially different process, such as treatment with a detergent.
 - c) Groups (I-III) and VII are drawn to different compositions. The compositions of Groups

 I-III contain viral particles. The composition of Group VII contains patient specific

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antigens. A search for the viral particles of Groups I-III is not co-extensive with a search for patient specific antigens.

- d) Inventions (I-III) and VIII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product can be used in a diagnostic assay.
- e) Inventions (I-III) and (IX-X) are unrelated. The products of Groups I-III are not required for the method of providing protection using patient-specific delipidated viral particles.
- Inventions IV, V, VI, VIII, IX and X are all unrelated. The methods of Groups IV-VI are drawn to the delipidation of different types of viral particles (immunodeficiency viruses, hepatitis viruses and pestiviruses). A search for delipidation of immunodeficiency viruses is not co-extensive with a search for delipidation of hepatitis viruses or pestiviruses. The method of Group VIII is drawn to providing protection against infectious viral particles. The methods of Groups IV-VI (collectively) and Group VIII do not share modes of operation, function or effect. They are not disclosed as capable of use together. The methods of Groups IX and X are drawn to providing protection using patient specific delipidated viral particles, not required for the practice of any other method or disclosed as capable of use with other methods.
- g) Inventions (IV-VI) and VII are unrelated. The methods of Groups IV-VI do not require the patient-specific antigen delivery vehicle of Group VII.

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h) Inventions VII and VIII are unrelated. The method of providing protection against an infectious viral particle does not require the patient-specific antigen of Group VII.

- Inventions VII and (IX-X) are related as product and process of use. The product of Group VII can be used in a diagnostic assay.
- 3. Because these inventions are distinct for the reasons given above and the literature search required for one group is not co-extensive for any other group, restriction for examination purposes as indicated is proper. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stacy B. Chen whose telephone number is 571-272-0896. The examiner can normally be reached on M-F (7:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James C. Housel can be reached on 571-272-0902. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stacy B. Chen July 30, 2004

JAMES HOUSEL SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600